

# LANGVIN

## AM4302A PRE-AMPLIFIER

THE AM4302 PRE-AMPLIFIER IS PRIMARILY INTENDED FOR USE AS A MICROPHONE PRE-AMPLIFIER IN THE 4000 SERIES SYSTEM. IT MAY BE USED AS AN INDIVIDUAL MODULE IN OTHER ASSEMBLIES IF THE INPUT AND OUTPUT PARAMETERS SERVE THE REQUIRED PURPOSE.

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The AM4302 Pre-Amplifier is designed for high impedance microphone pre-amplification into a system load of 10K ohms or more. It is constructed on a plug-in printed circuit card and does not contain controls or adjustments.

### ELECTRICAL SPECIFICATIONS

SOURCE IMPEDANCE:	100K ohms nominal
GAIN:	-34 dbm causes 250 mv/10 K ohms out
	Change of feedback resistor changes gain:
	22K ohms + 3 dbm
	51K ohms + 6 dbm
	91K ohms + 9 dbm
FREQUENCY RESPONSE:	± 1 db 30 Hz to 15 KHz
LOAD IMPEDANCE:	10K ohms nominal
OUTPUT MAX:	5 volts RMS/10K ohms
HARMONIC GENERATION:	Less than .2% at 1 KHz
NOISE:	70 Microvolts
POWER REQUIREMENTS:	42 volts dc/ 3 mA
SIZE:	2-1/4" wide X 2-1/2" long
MATING CONNECTOR:	Cinch 252-10-30-24D
MOUNTING:	The 4302 type amplifier may be mounted in TRY-4000.

